

**ABSTRACT**

A vehicle control system capable of achieving improvement in fuel efficiency by performing optimum control over an engine in consideration of power load applied onto an engine by auxiliary machines. An engine control amplifier 2 includes: a temperature-dependent engine control section 16 that controls a fuel consumption amount of an engine 1 based on at least one of a water temperature and an oil temperature of the engine 1; a power-dependent engine control section 17 that controls the fuel consumption amount of the engine 1 based on an electric power mainly consumed by a cooling motor fan 15 in a vehicle; and an airconditioning-dependent engine control section 18 that controls the fuel consumption amount of the engine 1 based on a refrigerant discharge rate of an airconditioning compressor 11, and the engine control amplifier 2 derives the combination of controls over the auxiliary machines that minimizes the fuel consumption amount of the engine 1 by an optimizing technique, to control the auxiliary machines.